

CLAIMS:

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1. A device for controlling the gas flow between a pressurised gases supply and a user, comprising:
a body portion including a first opening adapted to be in fluid communication with a pressurised gases supply, a second opening adapted to be in fluid communication with a user
a first auxiliary outlet in said body portion, and
valve means adapted such that during a user's inhalation, the flow of gases from said first opening is directed to said second opening, and during a user's exhalation, the flow of gases from said first opening is directed to said first auxiliary outlet.
2. A device as claimed in claim 1 further comprising a second auxiliary outlet in said body portion, which during inhalation of a user is closed, and during exhalation of a user is open and in fluid communication with said second opening.
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3. A device as claimed in claims 1 or 2 wherein said valve means comprises an axially moveable member of a construction suitable to substantially seal inside said body portion but in use axially moveable therein.
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4. A device as claimed in claim 3 wherein said movable member including at least two apertures and said first auxiliary outlet and said second auxiliary outlet, comprise apertures in said body portion which align with said apertures in said moveable member during exhalation of a user, and are closed off by solid sections of said moveable member during inhalation of a user.
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5. A device as claimed in claims 3 or 4 wherein said moveable member includes a partition disposed between said apertures in said moveable member, and a one way valve allowing flow only in the direction from said first opening to said second opening.
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6. A device as claimed in any one of claims 2 to 5 wherein said first auxiliary outlet is of an cross sectional area greater than that of said second auxiliary outlet.
7. A device as claimed in claim 4 wherein said body portion including stopping means restricting the axial movement of said movable member such that during inhalation said

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moveable member moves towards said second opening until stopped by said stopping means whereby said apertures in said body portion are closed off by said solid sections, and during exhalation said moveable member moves toward said first opening until stopped by said stopping means whereby said apertures in said moveable member align with said apertures in said body portion.

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8. A system for supplying gases to a user at a pressure above ambient comprising:
a pressurised gases supply,
gases delivery means for supplying said gases to said user in fluid communication with
said pressurised gases supply and said user, and
flow control means disposed within said gases delivery means or in fluid
communication therewith, said flow control means comprising a device according to any one
of the preceding claims.

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9. A system as claimed in claim 8 further comprising humidification means, for
humidifying said gases before delivery to said user, disposed within or in fluid communication
with said gases delivery means.

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